



Achievement Cycle Overview

Curriculum: Design & Technology: Resistant Materials

**Excellence.
No Excuses.**

Year	AC1	AC2	AC3	AC4
10	<p>Topic Overview: Mock NEA Investigation, understanding user needs. Design Brief & Specification, Designing</p> <p>Context: To be chosen from the AQA GCSE Design Challenge.</p> <p>NEA areas of study:</p> <ul style="list-style-type: none"> Context and design situation, task analysis Formulate Design Brief and identify client Client contact and details, including survey, questionnaire or interview. Research the work of others (secondary research) Primary research planning Design sketches <p>GCSE Links:</p> <ul style="list-style-type: none"> Investigation, primary and secondary data Understanding user needs Design strategies Social, cultural, legal and moral issues Products in Society Product Sustainability Social, environmental and economic challenges Human factors Market research Product research and analysis Technology in manufacturing Primary research Design briefs and Specifications Drawing techniques 	<p>Topic Overview: Mock NEA Development Manufacturing</p> <p>NEA areas of study:</p> <ul style="list-style-type: none"> Modelling CAD Construction sketches Working Drawings Materials list Manufacturing Specification Manufacturing <p>GCSE Links:</p> <ul style="list-style-type: none"> Exploring and developing a design idea Design strategies Developing prototypes :Manufacturing Specification Using materials efficiently Working safely 	<p>Topic Overview: Mock Testing and evaluation</p> <p>NEA areas of study:</p> <ul style="list-style-type: none"> Test aspects of prototype and make improvements Test product in situ Evaluate against Design Specification Gain client feedback <p>GCSE Links:</p> <ul style="list-style-type: none"> Developing prototypes Evaluate design Evaluate manufacturing process 	<p>Topic Overview: NEA Investigation, understanding user needs.</p> <p>Context: To be chosen from the AQA GCSE Design Challenge.</p> <p>NEA areas of study:</p> <ul style="list-style-type: none"> Context and design situation, task analysis Formulate Design Brief and identify client Client contact and details, including survey, questionnaire or interview. Research the work of others (secondary research) Primary research planning <p>GCSE Links:</p> <ul style="list-style-type: none"> Investigation, primary and secondary data Understanding user needs Design strategies Social, cultural, legal and moral issues Products in Society Product Sustainability Social, environmental and economic challenges Human factors Market research Product research and analysis Technology in manufacturing Primary research